

© 1978 The Tech

in the news

INSIDE

The long and arduous search for a new Dean for Student Affairs could be near its end—if the MIT administration would take note from this report by USC from Cambridge.

p4

The water polo team spent Columbus Day weekend in California playing some of the top intercollegiate teams. Although the team lost every game, Coach Benedik believes the players learned several new skills which will help them in their coming tournaments.

p12

NOTICE

The main topic at tomorrow's faculty meeting is the discussion on the Grading Committee's proposals. The meeting, at 3:15pm in Room 10-250, is open to all students as observers.

WEATHER

Clear to partly cloudy today with crisp temperatures not exceeding the low 50's. A northerly flow will drop lows tonight into the upper 30's. Light winds shifting to the southwest by Wednesday will bring a bit of warmth to the area as highs will reach the upper 50's under mostly sunny skies. Lows Wednesday night in the middle 40's.

Looking ahead: Thursday a bit warmer. A chance of rain 10 percent through Wednesday, 30 percent Thursday.

EXCERPTS

And then one must turn to the issue of objective news reporting. There is essentially no such thing as "objectivity". We will always be belaid with personal biases. However, there is an essential difference between objective and advocacy journalism. Advocacy is clearly biased and presents only one side to an argument. It is a form of reductionism. However, objective style reporting, by its very nature, at least attempts to present two sides of the news. The reporter is at least under moral obligation to get refutation or response to facts or statements released from a second party. By this very nature of objective style newsreporting, the reader may not be given the total picture or a totally unbiased view, but is given at least two opinions.

— Lisa Melilli
UMass Collegian

Iranians charge media coverup

By Elaine Douglas

The American media have failed to report the full dimensions of the current political unrest in Iran as well as the extent of the repression in that country, declared several speakers at a meeting held at MIT on Sunday, Oct. 15.

As an example of the kind of reporting that has not appeared in the US mass media, speakers cited a story in the London-based *Manchester Guardian Weekly*.

The Oct. 1 issue of the *Guardian* reported that grief-stricken persons searching for friends and relatives among the thousands killed by military forces of the Shah of Iran on Sept. 8 were forced to pay "bullet money" before they were allowed to carry bodies away. About \$43 was demanded by the Iranian government for each bullet found in the bodies of 3,000 slain demonstrators, the *Guardian* reported. Many poor Iranians could not afford the sum, and large numbers of bodies are believed to have been buried in mass graves, according to the British paper.

The American media have reflected the official US government and Iranian government interpretation, which pictures the Shah as a visionary leader of an unappreciative nation, the speakers said.



Room 54-100 was the setting for a teach-in on Iranian dissension Sunday. Speakers included Nobel laureates from MIT and Harvard. (Photo by Gordon Haff)

The meeting, attended by about 300 people, was addressed by MIT professors Noam Chomsky and Joseph Weizenbaum, Harvard professor George Wald, and Parvin Najafi of the Iranian student newspaper *Payam Danesh-joo*. A representative of the Iranian Students Association also spoke on an *ad hoc* basis.

Parvin Najafi told the MIT audience that the US press has "distorted the facts" and belittled the significance of the rebellion in Iran by portraying opponents of

the Shah as misguided "Moslem fanatic extremists who are against the Shah's 'modernization program.'"

"The Shah's 'program' consists of giving US corporations a free hand to plunder the natural resources of Iran," Najafi said. Despite vast oil revenues, the majority of Iranians are desperately poor, she declared. "Most of the oil money has gone back to the US and Europe for arms purchase."

Land reform, a key feature of

the Shah's domestic program, "redistributed land, not to peasants but to Iranian agribusiness interests, which produce for export," Najafi said.

"The people have had enough," she declared, and since January they have been waging a "gigantic battle" against the regime involving strikes and mass demonstrations of unprecedented size. The government has responded with "savage repression," she said. "The police are shooting indiscriminately at unarmed demonstrators and thousands have been massacred." On Sept. 7, the government imposed martial law.

"Hundreds of thousands of industrial workers, the two major daily newspapers in Tehran, and all students and teachers are on strike," she said.

On Sept. 4, "the biggest demonstration in the history of Iran took place," she said. "It involved three to four million in various cities."

Then, on Sept. 7, "even larger demonstrations occurred. In Tehran, a city of 4½ million, one million persons appeared on the streets."

On Sept. 8 crowds again assembled in the heart of Tehran. The French paper *Le Figaro*, Sept. 8, called the assemblage "an ocean, a tidal wave of humanity" consisting of 300,000 or 500,000, maybe more."

Time Magazine, Sept. 18, called the demonstrators "a colorful, sometimes incongruous cross-section of Iranian society" numbering 100,000.

On Sept. 8, the Shah's troops opened fire, as they had on several occasions in previous months. The British *Guardian* reported a figure of 3,000 dead in Tehran on Sept. 8. *Time Magazine* quoted the Iranian government figure of "86 killed, mostly women and children."

ABC-TV News "took propaganda to the point of absurdity" in the network's Sept. 15 news broadcast, Najafi declared. "First they showed demonstrators being buried, then they switched to a shot of an Iranian woman putting on make-up at her dressing table, and said that was what the demonstration was against."

In his talk Chomsky recalled the first demonstrations against the war in Vietnam in 1965. "These demonstrators were ac-



Harvard Professor of Biology George Wald spoke at the Iran teach-in Sunday. (Photo by Gordon Haff)

Blood Drive to start soon

By Jay Glass

The members of the MIT community will once again have the chance to show their humanity and their sense of charity with participation in the MIT-Red Cross Fall Blood Drive. Sponsored by the Technology Community Association (TCA), the blood drive will be held in the Sala de Puerto Rico in the Student Center on November 1-3 and 6-10.

The goal set by the Red Cross for this fall's blood drive is 1700 pints. Last year, TCA's fall drive yielded 1689 pints of blood, the highest total donation since 1974. In the five blood drives held on campus each year, the MIT community donates about one percent of all the blood donated in the Massachusetts-Maine region. This is a good performance, considering that the MIT community comprises only 0.2 percent of the regional population.

Appointment forms will be dis-

tributed soon throughout the Institute, including the dormitories and fraternities. According to Blood Drive Chairman Tom Crowley '79, "We'd like to get appointments scheduled early, so we can let the Red Cross know how many nurses and tables to plan for. Scheduled appointments will also make it easier on the donors by reducing the waiting time." He added that donors with appointments would have priority over walk-ins if the drive was overcrowded, and that appointment times would be given out on a first come, first served basis.

Due to the usual reliability of the MIT drive in providing quantities of fresh blood, a large amount of elective surgery has been scheduled at area hospitals, during and shortly after the blood drive. Should the MIT drive unexpectedly fall short of its goal, the Northeast Regional Red Cross will be forced to set up a last-minute drive elsewhere.

As in past years, the Interfraternity Conference (IFC) and the Dormitory Council will be sponsoring blood donation contests. Kegs of beer will be given to the first, second and third place fraternities and dormitory groups, based on the percentage of participation within each group. A keg of beer will also be awarded to the dormitory group and fraternity showing the most improvement from their 1977 turnout. Assistant Chairman Jim Mahoney '81, revealed that, "for the first time, there will probably be a faculty beer contest."

Fraternities, though outnumbered in population by the dormitory system, have led in blood donation the past several years. Last year, after an IFC challenge to the dormitories, the fraternities out-gave the dormitories by 504 pints to 476. However, the amount of blood given by dormitory residents was their largest total donation in several years.

news roundup

World

Conclave elects new Pope — The Archbishop of Krakow, Karel Wojtyla, was chosen yesterday by the conclave of Roman Catholic Cardinals as the papal successor to the late John Paul I. Wojtyla, who is 58 years old, is the first non-Italian to be elected pope since the 16th century, and the first Pole ever to head the Roman Catholic church. He has taken the name John Paul II.

Ian Smith to reconvene peace conference — Rhodesian leader Ian Smith agreed yesterday to meet again with the US State Department in Washington along with his three black co-leaders and even some of his "enemies." He is quoted as saying that he "now favors an all-parties conference," something the State Department has been working toward for a long time.

Nation

Congress approves tax cut and energy program — In a marathon 34-hour session ending Sunday, the Senate and House of Representatives completed work on a federal income tax-cut bill and finally reached agreement on the year-and-a-half old compromise version of Carter's energy program. If signed by the President, the tax-cut bill would result in a total tax reduction of \$18.7 billion; an earlier proposal called for a \$29.3 billion reduction. Also passed and ready for Carter's approval is a watered-down version of the Humphrey-Hawkins full employment bill.

Carnegie-Mellon professor wins Nobel economics prize — Herbert Simon, now a professor of computer science and psychology at Carnegie Mellon Institute in Pittsburgh, became the seventh American to win the Nobel Prize in Economics yesterday. The choice was unusual in that Simon's work dealt more with decision science than with economic theory. A cash award of \$165,000 is part of the prize.

Local

Boston typographers' union ratifies agreement — The Boston Typographical Union came to a final agreement on new contracts with the city's two major newspapers, *The Boston Globe* and the *Boston Herald American*. By the new agreement, *Globe* printers are guaranteed lifetime job security and a \$72 per week pay raise over the three-year contract term. However they will not have jurisdiction over the installment of new electronic typesetting equipment at the *Globe*. Unneeded job positions will be gradually phased out through attrition and retirement.

— L. Richard Duffy

ATTENTION

GRADUATE STUDENTS

The Student Affairs Visiting Committee from the MIT Corporation needs your input on Graduate Student problems.

Topics will include:

Financial Aid
Housing
Extracurricular Opportunities
Minority/Foreign Student Affairs
Quality of Graduate Student Life
Counseling

Please come to the Preliminary Hearing sponsored by the Graduate Student Council.

Thursday, October 19

6:00 to 8:00 pm

Walker Bldg. E50

Blue Room (second floor
next to Pritchett Lounge)

This meeting will organize student input and set the agenda for the upcoming Visiting Committee session.

For Further Information: Call 3-2195

classified advertising

Teachers — Hundreds of Openings Foreign & Domestic Teachers Box 1063, Vancouver, Wa. 98666.

\$50 per 100 envelopes stuffed and addressed at home. Write Benco Enterprises Box 5641 Austin Tx. 78763. SOON.

Arlington three furnished rooms apartment, beautiful residential area. Kitchen, livingroom, bedroom, bath, wall carpeting, bus to MIT. All utilities included in \$320.00 mo. no pets — 646-5975 (owner).

Students you want it we have it. Moving out of state. Bedroom sets, living room sets, kitchen sets, appliances, TVs, Radios, etc. Call 396-1026, 396-6360, 391-0716.

Renting exquisite new Lexington home furnished or unfurnished. 10 rooms 4 bedrooms 2 baths, fireplace, large modern kitchen, garage. Prices and conditions negotiable. Excellent opportunity for graceful living close to Cambridge. Call Dr. Asturi 862-43901

Needed: Infant Care Person. Our daughter needs a person to care for her approximately three to four days per week (weekdays). We are located in the Brookline area. Prerequisites: excellent common sense; reliability; genuine concern for child's emotional and physical well-being. Excellent references required. Call 731-5374.

For Sale: 1974 Ford Pinto Station Wagon. Call 536-5735 evenings.

For Sale: Single Bed (sheets, cases, too), dr table, Len x3-1541.

ANY U.S. BOOK IN PRINT
ORDERED BY PHONE
DELIVERED PROMPTLY TO
YOUR HOME OR OFFICE

The easiest way to get
the books you want.

CALL 944-8060 ANYTIME
7 Day — 24 Hour Free Service
MAJOR CREDIT CARDS ACCEPTED

CBSA
Cooperative Book
Service of America,
International
Reading, MA 01867
7 Years of World Wide Service



Mules laden with Blue Maguey pinas on their way to Cuervo's La Rojena plant.

Since 1795 we've gathered our
Blue Magueys for Cuervo Gold
the gentle way.
It's the old way. And still
the best.

At Cuervo we know that there is only one way to make Cuervo Gold perfect. The way we've been doing it for more than 180 years.

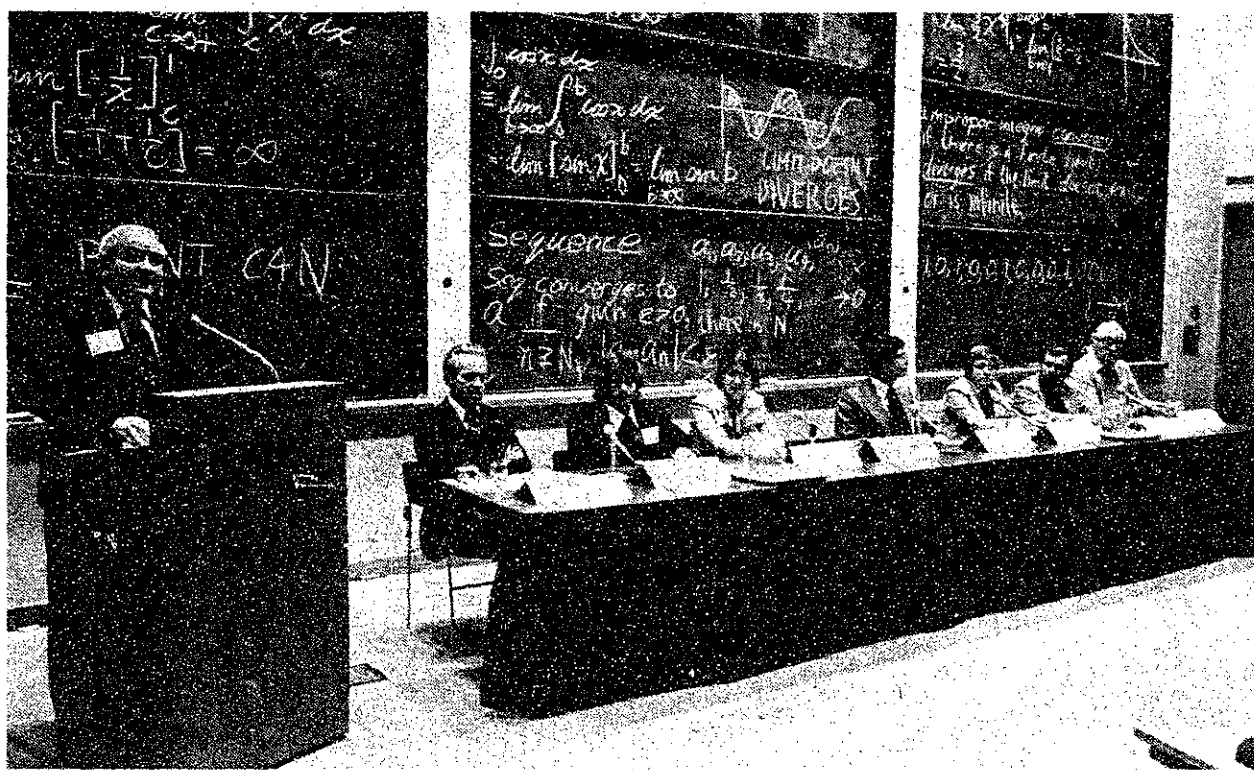
That's why people still nurture our fields of Blue Maguey plants. And why mules are still used to bring these precious plants to our distillery. For tradition is still the most important ingredient in Cuervo Gold.

This is what makes Cuervo Gold truly special. Neat, on the rocks, with a splash of soda, in a perfect Sunrise or Margarita, Cuervo Gold will bring you back to a time when quality ruled the world.

Cuervo. The Gold standard since 1795.



CUERVO ESPECIAL® TEQUILA. 80 PROOF. IMPORTED AND BOTTLED BY © 1978 HEUBLEIN, INC., HARTFORD, CONN.



Last weekend, the MIT Alumni Association sponsored its annual Alumni Officers' Conference. In all over 400 students and Alumni Association officers gathered together for two days of meetings, meals, and discussion groups.

The theme of the weekend was to give the alumni officers an idea of what MIT's students are doing. The first events were a number of club luncheons in which alumni from various cities around the country talked to students from the cities. One purpose of these luncheons was to help students find jobs in their home cities.

The conference's highlight was a panel on student life chaired by Chancellor Paul E. Gray '54. Also on the panel were Jack Frailey '44, (Director

of Student Financial Aid), Robert Halfman '44 (Acting Dean for Student Affairs), Jane Betts (Director of Women's Athletics), Jim Thomson '79 (IFC Judicial Committee chairman), Donna Baranski '80, Barry Newman '79 (UAP), and Steve Horlitz (President of GSC). Each speaker made a five-minute presentation and then the floor was opened to questions by the alumni.

Those who attended the conference were generally pleased with the sessions. The attendance was the largest that it had been in several years and the students involved felt that the alumni had been very receptive to their ideas and suggestions.

— Gordon Haff

Wednesday, October 18
11am-3pm
Demo of Texas Instruments
Calculators
at the MIT Coop



LOWEST PRICES AND WIDEST
SELECTION IN TOWN—ALL BRANDS

**SPECIAL 20%
STUDENT DISCOUNT**
on foreign car parts

Present your student ID and
receive 20% off the regular retail list price.
Special free help for Do-It-Yourselfers

IMPORTED CAR PARTS OF NEW ENGLAND

2096 Mass Ave. Cambridge.
661-0820

24 Brighton Ave. Boston
787-9350

**NEW ENGLAND
WOMENS SERVICE, INC.**

A Quality Licensed Medical Facility
offering

Abortion, Birth Control, Gynecology
Free Pregnancy Tests & Counseling
Hours: Mon.-Fri. 9-9; Sat. 9-5

738-1370

1071 Beacon St. Brookline, Mass.

US media criticized

(Continued from page 1)

tually against US intervention in Vietnam and Iran," Chomsky said. "The organizers recognized that US intervention in Vietnam was merely symptomatic of a larger political dynamic.

"A network of fascist 'torture states' have spread like a plague through the world in the last few years," Chomsky said, and he linked such states to Western, especially American, influence.

"They share common features," he continued. "Ideology: national security — which in practice means security for foreign capital — is elevated to an unchallengeable doctrine; ruthless suppression of domestic opposition; and a dependent mode of economic development."

"The growth of an agribusiness export sector, depressing domestic food production, and driving peasants to urban centers where there is no work — this is occurring in Iran and all over the world," Chomsky maintained.

The US has approved the Shah because he purportedly brought "stability" to Iran. "Stability," Chomsky said, "is a code word for serving US interests."

"Government is often more candid about these matters than the press," said Chomsky. He quoted a December 1977 US Senate Report, "Access to Oil: US Relations with Saudi Arabia and Iran."

☆☆☆☆☆☆

Ballot Counter Jobs for Nov. 7 State Election City of Cambridge

If you are a registered voter in Cambridge and you want to earn \$14 counting ballots from 8pm until the ballot count is completed the night of November 7, call Sandy Scheir 876-9828 after 6pm.

☆☆☆☆☆☆

We can't do it without you.

The Systems Division of Computer Sciences Corporation has mounted the most aggressive campus recruitment program in its history.

As a consequence of our growth, both in types as well as magnitude of contracts, the entry level opportunities now at CSC are as numerous and diverse as an encyclopedia of communications and computers, with systems ranging from undersea to outer space. Intensely challenging programs underway serve almost every branch of government, and every corner of industry.

Unlike other large firms which concentrate on design, development, and manufacture of computers and related hardware, CSC is entirely systems oriented. Here you will find yourself in the unique position of creating software for systems (which you will also be helping to create) out of your knowledge of customer needs, and awareness of all of the hardware available, from any and every manufacturing entity in the nation. Perhaps the world.

From the beginning, you will enjoy the career advantages that arise out of CSC's stature as one of the largest information sciences companies in the world. But you'll soon realize the value to you as an individual of the fact that CSC is not a giant monolithic employer. Even within our fast growing Systems Division, each operation and technical team maintains its own identity and individuality.

So you will enjoy greater visibility for all the good things you do.

Starting in Year Number One.

If your degree is in EE, Computer Sciences, or their equivalent, we'd like to introduce you to people very much like yourself who have helped make CSC the industry leader in software and computer-based systems.

We couldn't have gotten there without them...and we can't stay there without you.

**We'll be interviewing on campus
Thursday, October 26th.**

See your College Placement Office for details, or write Chris Pappas, Employment Manager.

WE AGGRESSIVELY SUPPORT EQUAL OPPORTUNITY AND AFFIRMATIVE ACTION

COMPUTER SYSTEMS DIVISION
SCIENCES 6565 Arlington Boulevard Falls Church, VA 22046
CORPORATION Major Offices and Facilities Throughout the World.

CSC

opinion

USC from Cambridge

Three administrators in search of a Dean

"Excuse me, are you Vladislavski Smith?"

The blue-clad figure raised his head from the sink, his left hand keeping the wrench on the faucet. He turned to face the three men in dark gray business suits who were fidgeting nervously in front of him.

"Yes, I am. What can I do for you?"

The shortest of the three spoke first. "Mr. Smith, my name is Paul Gray. The gentleman with the pipe is Jerry Wiesner, and this fellow is Constantine Simonides. We're from MIT."

"Am I what?" interrupted the plumber.

"No, no," said Simonides. "MIT. The Massachusetts Institute of Technology. We comprise a special Search Committee in charge of finding a new Dean for Student Affairs. Our carefully evaluated computer-selected list of possible candidates had your name placed prominently at the top."

"Hmmm," said Smith thoughtfully. "How much does it pay?"

The man with the pipe leaned over and whispered some figures into the plumber's ear.

Smith laughed and exclaimed, "You're kidding! I make more than that as a plumber. Now, if you'll excuse me,..."

* * *

They were met at the Hollywood-Burbank Airport by Herbie Goldstein '63, head of the Greater Los Angeles MIT Alumni Club. Goldstein whisked them to a palatial mansion in the Bel Air section, where their next man was waiting. He answered the door himself.

Gray began the introduction. "I'm Paul Gray, and these men —"

"Cut the speech, okay? I'm not so good at 'memberin' names anyway. Whadda you guys want? My autograph?"

Gray tried again. "Actually, Mr. Travolta, —"

"Call me John, okay?"

"Actually, John, we're a special MIT Search Committee in charge of finding a new Dean for Student Affairs for the Massachusetts Institute of Technology. Our carefully evaluated computer-selected list of possible candidates —"

"Wait a minute. What does this Dean for Student Affairs do. I mean, does he encourage the students to have affairs, or what? I'm all for that."

"Well, actually, Mr. Travolta, —"

"Call me John, okay?"

The man with the pipe became exasperated. "There are a great many responsibilities to go with this position, son."

"Any singing or dancing?"

"Well, no."

"Can I work with Olivia Newton-John?"

"Will you settle for Alice Seelinger?"

"I'm afraid I'm not your boy. Have you asked Mr. Kotter?"

* * *

Within an hour after returning to Boston, the three men were knocking on the door of an unobtrusive duplex in Brookline. A young man in a crew-neck sweater answered the door. "Can I help you?" he asked.

The tallest of the three men removed a pipe from his mouth and recited, "I'm Jerry Wiesner, and these men are Paul Gray and Constantine Simonides. We're from MIT. We comprise a special Search Committee in charge of finding a new Dean for Student Affairs. Our research shows that you could be the right man for the job."

"Well, I'm flattered," replied their host. "What does the position entail?"

Simonides raised his hand. "I can answer that one." Wiesner nodded, and Simonides continued. "The ideal person for this office will be a psychologist, administrator, referee, parent and baby sitter for 8,500 post-pubescent youngsters."

The candidate said, "Hmmm, that sounds even harder than my old job. Who would I have to work with?"

Gray fielded that question. "First of all, there's Dean Bob Halfman. We call him that because he spends half of his time in the Dean's Office and half of his time elsewhere. Then there's Dean Bobby Holden. He's in charge of Student Activities. He's very insecure, because we stuck him in another building, away from all the other deans."

"Why did you do that?" interrupted the candidate.

Gray ignored the interruption. "Are you interested at all in the job?"

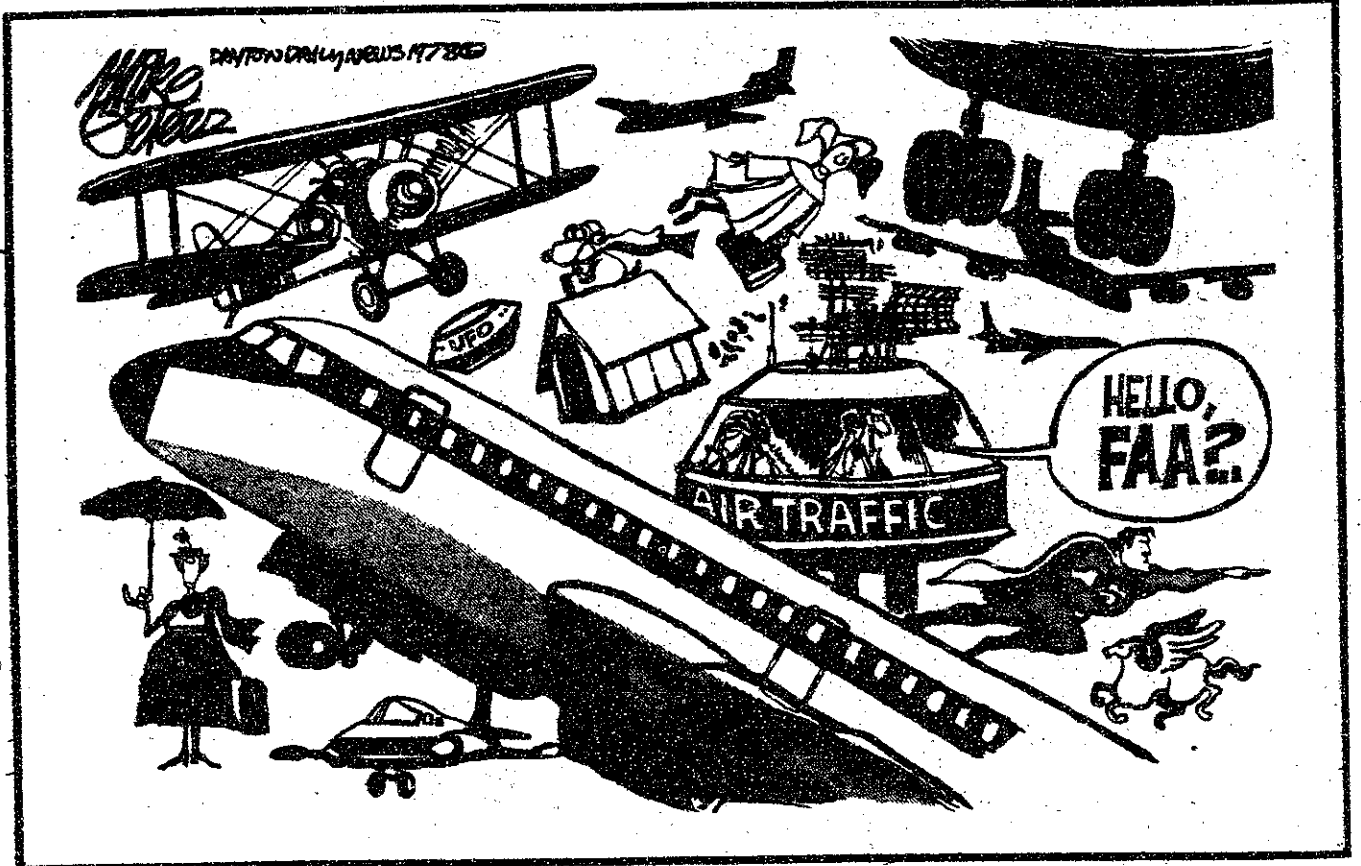
"Can I get to work by public transportation?"

Gray conferred with his two colleagues, and finally replied, "Yes, I think so."

"Good. I am interested in the job. But I'm not available until after the first of the year."

"Very well. We'll be in touch with you, Mr. Dukakis."

Editor's Note: USC from Cambridge is an infrequent contributor to The Tech.



feedback

Marching Band not a spoof

To the Editor:

In response to your editorial column, "Something Else," of October 13, 1978, we, the organizers of the MIT marching band, must differ with your opinion. It appears that not all, and perhaps none of the facts had been ascertained by you before publication of the article. The second paragraph's treatment of the marching band was pure conjecture. We in fact do not intend to be a spoof but a well organized, responsible band. It may well be true that we will have no traditional uniforms for several years because of the lack of funding for them, but it is irresponsible to refer to our attire as "random costumes." There is not time to coordinate a sophisticated half-time show, so we will not attempt one this year. Why should we be assumed to be using haphazard formations?

We regard *The Tech* as being one of this school's more informative papers, perhaps incorrectly, but we must regard this case as totally irresponsible journalism. Not only do we request — we demand a public apology on your part. We sincerely hope that your editorial has not discouraged any prospective members.

Tom Gaul '81
Lee Silverman '81
Roger Slyk '81

Editor's note: It was not the purpose of that particular column to encourage prospective members of the MIT Marching Band. Many

college bands today are humorous spoofs of traditional "marching hundreds" and at the same time perform excellently.

Paul Hubbard

by Kent C. Massey



The Tech

David Schaller '78 — Chairman
Bob Wasserman '80 — Editor-in-Chief
Steven F. Frann '80 — Managing Editor
Lee Lindquist '79 — Business Manager

Volume 98, Number 46
Tuesday, October 17, 1978

Third class postage paid at Boston, MA, Non-Profit Org. Permit No. 59720. *The Tech* is published twice a week during the academic year (except during MIT vacations), daily during September Orientation, and once during the last week of July. Please send all correspondence to: P.O. Box 29, MIT Branch, Cambridge, MA 02139. Offices at Room W20-483, 84 Massachusetts Avenue, Cambridge, MA. Telephone: (617) 253-1541. ISSN 0148-9607. Advertising, subscription, and typesetting rates available. ©1978 The Tech. Printed by Charles River Publishing, Inc.

Morrison's views in Scientific American

By Elaine Douglass

American military expenditures "so far exceed actual US military needs as to be unsafe for the nation and the world," writes MIT Professor of Physics Philip Morrison in the October, 1978 issue of *Scientific American*.

The cost of American military forces in 1979 will total \$126 billion, or 40 percent of net federal spending. But this country could cut its military budget by \$50 billion and still be fully capable both of deterring a nuclear attack by the USSR and of defending itself, Japan, and Europe in a conventional war.

These conclusions are reached in "A New Strategy for Military Spending" co-authored by Morrison with Paul Walker, MIT graduate and Harvard Research Fellow. The piece is a summary of four years' research by the six members of the Boston Study Group, whose full study will be published this winter by the New York Times Publishing Co. as *The Price of Our Defense: A New Strategy for Military Spending*.

Members of the Boston Study Group include Randall Forsbert, former fellow at the Stockholm Peace Research Institute, now at MIT; Martin Moore-Ede, Harvard professor of physiology; Phyllis Morrison, author and teacher; and George Sommaripa of Cambridge.

"The United States leads the world technically in nearly every significant aspect of military hardware," the *Scientific American* article maintains. America is "the world's only truly global power." Yet many continue to urge that the United States deploy additional weapons and increase spending for defense.

The growth of US military power has "passed the bounds of reason," Morrison and Walker declare. Ever-increasing weaponry is "profoundly unsafe," and creates "genuine risk" of major war.

The authors propose the "United States buy as much force as it needs but not more, that it prepare prudently for military contingencies, but not overprepare."

Unilateral reductions in US forces are necessary because "the United States is largely responsible for setting the technical pace" of the US-Soviet arms race, and because arms control agreements have not slowed arms competition.

America's and Russia's differing military needs necessarily generate different force structures, the authors declare, and arms control negotiating formulas which typically try to match forces item-by-item cannot succeed.

The 600,000 Soviet personnel stationed on the Sino-Soviet border, for example, could not be released for any European contingency. Moreover, the Soviet army is swelled by uniformed personnel in a wide range of functions for which the United States uses civilians.

Thus, "head counts that ignore functional commitments" will be unavailing as a guide to US force planning, the authors declare. Even though the Defense Department does not count the Soviet troops on the Chinese border as part of the threat for which the NATO allies must prepare, simple head counts are nonetheless used by some as the excuse for torpedoing arms control agreements, as well as for buying un-

necessary US forces.

US forces should be tailored to meet the threat this country might actually encounter in the event of war, Morrison and Walker believe. To this end the Boston Study Group has carried out an "issue-by-issue, weapon-by-weapon examination of the world of warfare today" and has proposed a 40 percent cheaper US force structure which the Study Group members believe is adequate to protect against "any plausible dangers of the next decade."

The authors outline major cuts in the strategic forces.

US land-based ICBMs (Minuteman) will soon be vulnerable to increasingly ac-

(Please turn to page 9)

Threepenny Opera

Caravan Theatre

1555 Massachusetts Av.

Cambridge,

(near Harvard Square)

Performances:

Wed., Thur., Fri. & Sat.

Theater Charge

ARTS Vouchers

For reservations:

354-9107



Computer Careers at Amdahl...

Where Your Ideas are Valuable.

Computer professionals are aware that today's most advanced large-system technology was developed by a company that, not too long ago, was virtually unknown. It was during late 1975 that the company first attracted widespread industry attention. Now, Amdahl is a major contender in the large systems market: a group of highly talented high technologists producing the world's highest performing general purpose computers, the V/5, V/6 and V/7. With a worldwide installed base of 470 series systems rapidly approaching a half-billion dollars.

Although we are growing at a rapid pace, we are committed to retaining the same creative environment that characterized the company when we began. We are still small by computer industry comparisons.

We are still friendly. And we still enjoy attacking tasks because we think it's fun. We understand that if you're the kind of person who has bright ideas, you need room to make discoveries and explore your talents. You need recognition for your achievements. Appropriate reward for your efforts. And the chance for your ideas to be heard.

You can expect to find these things at Amdahl. So if you're about to receive a BS or advanced degree in electrical engineering or computer sciences, and consider yourself a cut above your classmates in competence, enthusiasm and potential, why not consider a career at Amdahl? You may be surprised at what your ideas are worth.

Amdahl Corporation, 1250 East Arques Avenue, Sunnyvale, California 94086. We are an equal opportunity employer.

We are seeking exceptional people at all degree levels in electrical engineering and computer science. Successful applicants will find themselves meaningfully involved in projects related to the conceptualization, de-

sign, development, test, and manufacture of large, advanced technology computers and supporting software. Some of these projects incorporate the use of mini or micro computers.

ON CAMPUS INTERVIEWS:

Wednesday, October 18

amdahl

WHAT'S AN NSA CAREER?

It's different things to different people.

Of course, all employees at the National Security Agency have certain things in common: they are civilian employees of the Department of Defense; they are engaged in technical projects vital to our nation's communications security or a foreign intelligence production mission; and they all enjoy the benefits that accompany Federal employment. However, the differences between our career opportunities are just as interesting as their similarities. For example...

TO THE ELECTRONIC ENGINEER (BS/MS): An NSA career means delving into unique projects which can span every phase of the R&D cycle. An engineer may design, develop, test and manage contracts on communications, recording, and information storage devices and systems whose capacities and speeds are still considered futuristic in most quarters.

TO THE COMPUTER SCIENTIST (BS/MS): It means applying his or her knowledge in a wide range of sub-disciplines such as systems design, systems programming, operating systems, computer applications analysis, and retrieval systems.

TO THE MATHEMATICIAN (MS): A career means defining, formulating, and solving complex communications-related problems. Statistical mathematics, matrix algebra and combinatorial analysis are just a few of the tools applied by the NSA mathematician.

Interested in learning more about the difference in an NSA career? Schedule an interview with us through your Student Placement Office today. If we do not recruit on your campus, send a resume to the address given below.

U.S. citizenship is required.



NATIONAL SECURITY AGENCY
Attn: M321
Fort George G. Meade, Maryland 20755
An Equal Opportunity Employer m/f.

All Hours
Professional Typing Service
Incorporated
Free Parking
864-2600

Ease On Down the Road to *The Wiz*



By Leigh J. Passman

Forty years ago a young Kansas girl, a scarecrow, a tin man, and a lion took us on a fantasy down a yellow brick road. They were seeking a way home for the lost girl, a brain for the scarecrow, a heart for the tin man, and courage for the lion. Along the way they instead discovered the power in believing and the indomitable love between friends and family, creating *The Wizard of Oz*, one of the most beloved fairy tales of all time. Since 1939 young and old alike have been charmed by its timeless themes, the delightful score, and the wonderful characterizations.

Who can forget Judy Garland as Dorothy, her poignant singing of the Oscar-winning "Over the Rainbow," or Jack Haley's Tin Man, Ray Bolger's Scarecrow, or Bert Lahr's Cowardly Lion.

Forty years later the fairy tale returns to the silver screen in a funky, charming, re-creation entitled simply, yet hiply, *The Wiz*. The movie version of *The Wiz* is based upon the all-black, Tony award-winning 1974 Broadway smash (which just began its national tour after a five-year run in New York).

William F. Brown's book for the Broadway version of *The Wiz* closely followed the original movie. Dorothy was still

a young girl violently thrust from her Kansas home to the Land of Oz where she met the Scarecrow, Tin Man, and Lion. Together they began their expedition to visit the Wizard of Oz. For the Broadway production of *The Wiz*, sets were jazzed up, choreography made funky, and the lingo made occasionally hip. Finally the score was totally revamped, producing several

(well played by comedian Richard Pryor), filmed at the twin towers of the World Trade Center. In the incredible production number, four hundred dancers in costumes by Halston, Bill Blass, Oscar de la Renta, and others move amidst the Center's plaza in the light of 27,000 bulbs; the effect is dazzling.

The play's score has not been significant-

"... the fairy tale returns to the silver screen in a funky, charming, re-creation entitled simply, yet hiply, *The Wiz*..."

new memorable songs including "Ease on Down the Road" (a modern "We're Off to See the Wizard") and "If You Believe" (to replace Garland's theme song — "Over the Rainbow").

For the movie, the span of five years since the Broadway play opened has wrought changes that overshadowed the alterations that followed the 35-year break between the play and the original movie. Nevertheless, *The Wiz* of 1978 still packs sentiment and joy to rival the original *Wizard of Oz*. *The Wiz* of 1978 takes place (and was shot) in New York City. Dorothy of 1978 is an elementary school teacher, played by singer Diana Ross; like the Dorothy of 1939 she too lacks self-confidence and is uncertain of her bonds to her family. She is swept to the Land of Oz by a snowstorm to re-create the experiences and lessons of *The Wizard of Oz*.

Changing Dorothy's hometown to New York provided set and costume designer Tony Watson with a tremendous challenge yet endless opportunity for creativity. Watson, whose credits include the costumes for *Mary Poppins* and the sets for *Pippin* literally took on the city of New York. Munchkin Land was shot outdoors at the New York State Pavilion, home of the 1964 World's Fair. For the Yellow Brick Road, Watson created a yellow vinyl strip for Dorothy and friends. And with that strip Watson paved the Cyclone (roller coaster) at Coney Island where Dorothy discovers the Tin Man (Nipsey Russell) amid rusted scrap, the expanse of New York's Ward's Island bridge, upon which the Scarecrow (Played by singer Michael Jackson) and Dorothy 'ease on down,' and part of Manhattan where at the facade of the New York Public Library, the Cowardly Lion (Ted Ross) breaks out of one of the 'stone' lion replicas that guard the library.

Any fan of New York will get a kick out of seeing the group pass a Nathan's hot dog stand on their way into the Hoyt-Schermerhorn subway station in Brooklyn.

The most impressive set is Watson's creation for the Emerald City, home of the Wiz

ly retouched, save an excellent new orchestration by jazz master Quincy Jones.

While *The Wiz* is for the most part effective, something seems amiss. Moving the setting to New York might have proven a mistake, yet Watson's sets have done much to maintain the fairy tale atmosphere. But changing the nature of character of

Dorothy was a move in the wrong direction. Making Dorothy a perturbed woman in her mid-twenties removes a crucial element — that of innocence, of childhood anticipation, fear, and love. Granted it's hard to match Judy Garland's charm and warmth singing "Over the Rainbow," but making Dorothy an adult in the movie (especially after succeeding with a childhood Dorothy in the Broadway production) seems unwarranted. Certainly Diana Ross's singing and dancing talents couldn't have solely warranted such a grave and jolting change. Whereas anyone can relate to Dorothy in *The Wizard of Oz*, children may find identifying with an elementary school teacher precluded by the disparity in age.

The Wiz has, however, put together a phenomenal collection of talent — in its actors, singers, dancers, costume designers, set designer, orchestrator, musicians, and supporting cast for a colorful, exciting, warm, and memorable re-creation of the classic *The Wizard of Oz*.



Judy Garland, Jack Haley, Bert Lahr, and Ray Bolger, the unforgettable stars of the 1939 MGM classic, pause on their way to see *The Wizard of Oz*. (Photo courtesy of LSC)

Mead

We would like to invite you to explore meaningful career opportunities with a leading diversified natural resource company.

Positions available:

Chemical Engineering
Computer Science
Electrical Engineering
Mechanical Engineering
Research

.....

Mead representative on campus:

10/25/78 - Michael L. Lappa, Manager
College Recruiting and Rel.

.....

If unable to schedule and interview, send resume to David H. Germann, Mead World Headquarters, Courthouse Plaza NE, Dayton Ohio 45463.

*An Equal Opportunity Employer M/F

THE NSA CHALLENGE AND YOUR RESPONSE

Engineers, mathematicians, and computer scientists at NSA comprise a technological community that is unique in the Western world, and perhaps in the entire world. Members of the staff develop and utilize devices which are in advance of those utilized by any other group in the country.

If you are the type of engineer or scientist who is intrigued by a challenge . . . who looks forward to contributing significantly to the security of your country . . . and who possesses a high degree of imagination, initiative, and intellectual curiosity, then we urge you to investigate a career at NSA.

Members of the NSA Technical Staff will visit MIT on October 19, 1978 to discuss in more detail the career opportunities described above.

Electrical Engineers, Computer Scientists, and Physicists please visit the Jackson Room, 38-466, 11:30-1:30 or 2:00-3:30.

Mathematicians please see notices on department bulletin boards.

NATIONAL SECURITY AGENCY
Attn: M321
Fort George G. Meade, Maryland 20755
An Equal Opportunity Employer m f.

U.S. citizenship is required.

arts cont.

Welles' classics return

By Kevin Cunningham

Citizen Kane and The Magnificent Ambersons, at the Harvard Sq. Theatre, beginning Wed., Oct. 18. Kane at 12:30, 4:10, 7:55; Ambersons at 2:35, 6:15, 10:00; \$1.50 before 6pm, \$2.50 after.

On Wednesday, October 18, 1978, the Harvard Square Theatre, haven of good movies at cheap prices, presents the 1941 RKO classic *Citizen Kane* starring Orson Welles in his first and probably best motion picture. With it is *The Magnificent Ambersons*, Welles' second vehicle, based on the Pulitzer-Prize winning novel by Booth Tarkington, and a close second as his best picture. Together the films make a tremendously worthwhile and effecting evening's viewing.

One of the best motion pictures ever made (it can be found on practically every list of the top ten flicks of all time), *Citizen Kane* was a cinematic sensation when it first opened. It received rave reviews and was hailed instantly as the epoch-making feature it was. Not only were the technical innovations of the film incredible (we can hardly appreciate the revolutionary nature of these techniques, which may seem almost stale today), but also the controversial subject matter, the way it was approached, and the cast, too, brought a fresh vitality to the screen not found in



Orson Welles returns to take control of an inherited newspaper in the 1941 classic, *Citizen Kane*. (Photo courtesy of LSC)

typical Hollywood mass-produced pap of the era.

"I had," recalls Welles, "the good fortune to have Gregg Toland, who is the best director of photography that ever existed, and I also had the luck to hit upon actors who had never worked in films before; not a single one of them had ever found himself in front of a camera until then. They all came from my theatre."

Welles had only recently made his famous panic "Martian Broadcast," based on *The War of the Worlds* by H. G. Wells, when he was transported with his entire performance troupe, the Mercury Theatre, to Hollywood on an unprecedented "free-run-of-the-studio" contract. Welles had been given, as he puts it, "an absolute power. And artistic control." Such total control is exceedingly rare in the Hollywood system, with only Charlie Chaplin achieving any similar power up to that time. Since then, a few other "outsiders" have been able to achieve such full artistic control, notably Ingmar Bergman and Woody Allen. Bergman never contended directly with Hollywood (and so lacks the great Hollywood cinematic arsenal to back him); and Allen's rise took years within the

system — which makes Orson Welles' situation all so amazing, a situation in which a movie nobody suddenly has all of Hollywood at his command. It was a tremendous piece of luck for Welles and the cinematic world in general, for everything suddenly chanced to come together at the right time to produce — *Citizen Kane*.

The story of the movie is primarily the work of Herman J. Mankiewicz, a close friend of newspaper magnate William Randolph Hearst, and traces the rise of Charles Foster Kane, a rich-born demigod loosely patterned after Hearst, who wants to be loved but just doesn't have any love to give. The secret of his dying word "rosebud" remains to the end of the picture, when it is revealed with a chilling fierceness that should strike a chord in everyone's mind. Like all great artistic works, *Kane* is open to interpretation on many levels. It is at once poignant and funny, and always compelling. If you have never seen *Citizen Kane*, you have missed an important cinematic experience, and perhaps one of the most eloquent statements on the human condition ever captured on film.

Marching band formed

By Jay Glass

"Contrary to some rumors, this is not going to be a kazoo band," said Lee Silverman '81, one of three East Campus students that are organizing the MIT Marching Band. Approximately thirty students attended the organizational meeting held Sunday in East Campus.

The band is regarded as an "experimental" group this year, chiefly to see if enough student interest exists to warrant a request for Institute funding in the future. The band currently has no uniforms and no outside funding. Music used this season will be borrowed from a high school.

According to Silverman, "we are not a hack organization." The band, he said, will

not put on a field show at halftime but will play in the stands at MIT's one home football game, against Sienna on October 28. "There isn't time to work out a complicated halftime show in just two weeks," Silverman stated. Plans are to begin practice at the beginning of the season next year, as well as active recruitment of members among next fall's freshmen.

The first rehearsal is tentatively scheduled for next Sunday afternoon at 3:00pm, probably in Talbot Lounge in East Campus. The band still needs members, particularly those with their own percussion instruments. Interested persons should contact Lee Silverman in East Campus at x5-6257.

happenings

AROUND MIT

The MIT Symphony, David Epstein, conductor; Ellen Hassman, cello soloist. Korngold's Overture; Dvorak's Cello Concerto in A Major; and Schubert's Symphony No. 3 in D Major. St., Oct. 21, Kresge. \$1 at the door, free tickets in Lobby 10.

Death of a Salesman, the MIT Community Players in Kresge Little Theatre, Oct. 20, 21, 26, 27, and 28 at 8pm, with matinee Oct. 22 & 28 at 3pm. Tickets \$3.50 at the door, \$3 in advance. For info call: x3-4720.

Much Ado About Nothing and Romeo and Juliet will be performed by the MIT Shakespeare Ensemble. *Much Ado* will run on Oct. 26, 28 & 30; *Romeo and Juliet* will run on Oct. 27, 29 & 31. On Thurs., Sun., Mon., and Tues. all seats cost \$2. On Fri. and Sat. seats cost \$3.50 and \$4, with a \$1

student discount. Tickets are available at the door or in Lobby 10. All performances begin at 7:45pm in the Sala. For information call 253-2903.

AT THE MOVIES

This weekend's LSC lineup:

2001: A Space Odyssey Fri. at 7 & 10pm, Sat. at 2, 7 & 10pm.

Seven Samurai (Classic) Fri. 7:30 in 10-250.

The Lavender Hill Mob Sun., 6:30 & 9pm, 26-100.

Cool Hand Luke the MidNite Movie Sat. Oct. 21, second floor of the Student Center.

IN THEATRE

Macbett, Ionesco's absurdist reworking of Shakespeare, at the Boston Arts Group Theatre, 367 Boylston St. Tickets are \$4.50 & \$4.00; Thurs.-Sat. at 8pm and Sun. at 3pm. For info call 267-8518.

How would Freud relate to O'Keefe?

Cold. Yet warming.
Hearty, full-bodied flavor. Yet smooth and easy going down.
And, O'Keefe develops a big head on contact.
Conflict. Conflict. Trauma. Trauma. Freud's diagnosis?
We think he would have said, "It's too good to gulp." And you will, too.
In the final analysis.



Imported from Canada by Century Importers, Inc., New York, NY

If you think learning stops with your degree, you haven't heard about



There's a small manufacturer in a suburb of Boston that's a leader in the highly specialized field of computer-operated linear test equipment. ...and it's a leader because of its unique approach to customer needs.

LTX is constantly developing new and better methods of solving its customers' problems. High-speed, accurate testing of semiconductors and IC's calls for aggressive, innovative thinking. The accuracy is traceable to Bureau of Standards measurements. The thinking and learning really begin when you join us.

Manufacturers whose reason for existence and success depends on the accuracy of their products rely on LTX test systems. And they come back to us for more.

What's still more interesting is that each LTX system is customized. No two problems are precisely alike, and no two days here are exactly alike, either. Nobody vegetates. Everybody learns, and grows. You'd do both here, without limit, while the opportunities seem to multiply by the hour.

This is an exciting company. You'd work with the recognized experts in the field, and you'd see the results of your work very quickly. Turnaround from design to shipment can be as short as three months... not two or three or five years. You can absorb the entire process and move on to the next problem. The motivation and the rewards are here for the right people, who will join us during the kind of early growth stage that characterized the early giants of the electronic industry.

We want bright, alert electronic engineers and computer science majors with electronics knowledge at the BS and MS levels for our new product development programs. We presently have openings for Software, Design and Applications Engineers, as well as for Test and Field Service Engineers.

LTX WILL BE INTERVIEWING ON CAMPUS OCTOBER 19.

LTX CORPORATION • 160 Charlemont Street, Newton Highlands, MA 02161 • (617) 244-7800

With Corning you can change careers without changing companies.

You can get off to a fast start at Corning. We don't believe in abstract management-trainee programs. You apply for a specific job in a specific discipline, and that's where you go to work, right away. No make-work assignments.

Sure, some time in the future you may change your mind about your career. Or you may not. Either way, the options stay open at Corning.

And the options are real. The No. 1 company in glass and glass-ceramics technology, with 60,000 products and 71 plant facilities around the world, offers opportunities in many engineering disciplines in machine design, process development, applied statistics, melting techniques, project planning and facilities construction. Whether you opt to stay within a single discipline or

to zigzag, you also will determine your growth within the corporation. We don't have any automatic escalators. It's pure personal merit and hard work all the way — payoffs come quickly.

To learn more about Corning, do one or both of these things:

- Send for our Corning recruitment brochure. Yes, it's a recruitment brochure, but it is straight talk about the things you really want to know.
- Write Director of Salaried Recruiting, to arrange more formal contact.

Corning is an equal-opportunity employer.

Corning Glass Works, Corning, N.Y. 14830.

Corning Glass Works representatives will be in room 66-366 of the Chemical Engineering Department on November 3, 1978 to discuss career opportunities with graduate Chemical Engineering students.

Corning Glass Works representatives will be in room 12-170 of the Career Planning and Placement Office October 26, 1978 to discuss career opportunities with senior and graduate engineers.

CORNING

Morrison and others seek US military cuts

(Continued from page 5)

curate Soviet warheads, they declare, but instead of building a proposed new mobile ICBM, the MX, the United States should phase out Minuteman, keeping 100 missiles as a hedge against the "unlikely possibility" that the US nuclear submarine fleet could be destroyed in a pre-emptive undersea attack.

The bomber force should be reduced to "a few," the authors recommend, because bombers take too long to reach their targets. In the proposed force structure, the United States would rely for its nuclear deterrent on the existing 31 Poseidon nuclear armed submarines, and cancel the Trident submarine system now under construction.

In the area of General Purpose Forces, while the authors propose major naval reductions they recommend only marginal cuts in present US land and air forces in Europe. These forces are needed to maintain the "crude balance" which now exists there.

Of the total Soviet armed forces of about 5 million, the authors estimate 2,100,000 would be available for a European war, while the United States has 1,900,000 available for that contingency.

In the 1980s, however, the authors believe NATO will be able to buy a much cheaper defense of Europe because of the development of precision guided munitions (PGMs), or so-called "smart weaponry" in the period since the Vietnam war.

The combination of "small and sensitive sensors of many kinds" coupled with guidance based on miniaturized circuits "offers the individual soldier or small teams of soldiers the odds-on probability of being able to destroy with one shot a tank, an airplane, or even a ship. The hit rate has risen by orders of magnitude," the authors declare, and "tactical smart weapons will give US and allied forces powerful means for stopping an attack by armored forces."

Morrison and Walker quote a high US defense official who this year reported to Congress that PGMs "will revolutionize warfare." The United States will soon have the capability, the official said, "to see all high-value targets on the battlefield at any time; make a direct hit on any target we can see, and be able to destroy any target we can hit."

According to Morrison and Walker, "the most inviting target of all may well be the aircraft carrier." The carrier is well defended but one hit on its fragile flight deck might put the carrier out of commission for months.

More than half of the Navy's current \$42 billion budget goes in some way to support the United States' 13 carrier task forces, yet these vessels are "useful primarily against a poorly-armed enemy." Carriers introduce unnecessary risk by tempting the United States

to intervene in foreign conflicts, and creating the possibility of "larger or smaller Vietnams," the authors believe.

They therefore propose a reduction of carriers from 13 to 3, and a cut in other major surface ships from 162 to 125, mainly ships now included in carrier task forces.

With the accelerated development of smart weapons, Morrison and Walker believe the number of US Army heavy divisions could be prudently reduced from 10 to 8 1/2, and the number of light divisions from 7 1/3 to 3. Two of the present 3 Marine light divisions could be eliminated. Total US military manpower could be cut from 2,100,000 to 1,400,000. They advise only small reductions in tactical aircraft.

WRITE YOUR OWN RESUME!

Do-it-yourself guide, includes cover letters and samples. Send \$3 to:
Terminus Press
PO Box 140
Cambridge, Ms. 02138

CHRYSLER CORPORATION offers engineering challenges

To meet vehicle fuel economy, emissions control, and safety requirements of the future, the automobile industry has entered an era of unprecedented change and technology. Chrysler Corporation continues to rely on engineering excellence to provide the consumer with maximum value.

Chrysler Corporation offers excellent opportunities in the following fields:

- Conventional and alternate engines
- Combustion research
- Mechanical and electronic control systems
- Materials Sciences
- Structures
- Chemistry
- Aerodynamics
- Safety
- Manufacturing Engineering

Our representatives will be on campus October 26, 1978.

PO Box 1118
Detroit, Michigan 48288

EARN OVER \$650 A MONTH RIGHT THROUGH YOUR SENIOR YEAR.

If you're a junior or a senior majoring in math, physics or engineering, the Navy has a program you should know about.

It's called the Nuclear Propulsion Officer Candidate-Collegiate Program (NUPOC-C for short) and if you qualify, you can earn as much as \$650 a month right through your senior year. Then after 16 weeks of Officer Candidate School, you'll receive an additional year of advanced technical education. This would cost you thousands in a civilian school, but in the Navy, we pay you. And at the end of the year of training, you'll receive a \$3,000 cash bonus.

It isn't easy. There are fewer than 400 openings and only one of every six applicants will be selected. But if you make it, you'll have qualified for an elite engineering training program. With unequalled hands-on responsibility, a \$24,000 salary in four years, and gilt-edged qualifications for jobs in private industry should you decide to leave the Navy later. (But we don't think you'll want to.)

Ask your placement officer to set up an interview with a Navy representative when he visits the campus on Oct. 24, or contact your Navy representative at 617-223-6216 (collect). If you prefer, send your résumé to the Navy Nuclear Officer Program, Code 312-B537, 4015 Wilson Blvd., Arlington, Va. 22203, and a Navy representative will contact you directly. The NUPOC-Collegiate Program. It can do more than help you finish college: it can lead to an exciting career opportunity.

NAVY OFFICER. IT'S NOT JUST A JOB, IT'S AN ADVENTURE.

"Foam rubber is our business"

FOAM RUBBER
AND POLYURETHANE
FOAM & FABRICS
FOR EVERY PURPOSE
mattresses, cushions, bolsters
cut to any size & shape
at no extra charge

DISCOUNT PRICES

IMPORTED
DANISH
DESIGN
FURNITURE



Cover replacements made to
order in vinyls & upholstery
fabrics Shredded foam, Bean
Bag chair refills (styrofoam).

**Foam Rubber
Discount Center**
254-4819

165 Brighton Ave., Allston

sports cont.

Rugby prospects brighter

(continued from page 11)
Springfield extras. Springfield managed to open up their back line in this game and showed a fast-paced style which the exhausted Engineers were unable to match.

While both matches were lost by considerable margins, MIT played well enough for its first match of the season against a strong opponent.

On September 23rd, the Club made the long trip up to Northfield, Vermont to play Norwich University. The cadets of Norwich came onto the field doing a Zulu war dance and the dazzled Engineers were down 18 points before they passed the 15 minute mark. From there on, however, the match was more balanced. Bryant hit a goal late in the first half to put MIT on the board. The second half was played almost entirely in Norwich's end. Although Norwich committed several errors and was penalized often, MIT was simply not able to break through for a try. The Engineers were stopped several times within

feet of the goal line.

The BU game on September 30 had a much different result from the previous two weeks. In a sloppy A-side match, generally dominated by MIT, Silverman scored two tries from the base of the scrum. Bryant converted one. The Terriers tied the game when their fast winger danced through to score unmolested. Their final try came on a bad defensive lapse on the part of the MIT backs when a ball which should have been cleared was run from the in-goal and fumbled, with BU recovering for the equalizing try. What should have been an MIT victory ended in a draw.

The B-side game was the better one of the day, with hard running by inside center Bruce Bidiehall and three tries by outside center Ellis Reid '82. Bidiehall scored one try and Joel Lederman, showing his versatility as a front row player with a half motion at scrum half, scored another. Lederman's try was a classic as he broke to the strong side from scrum on the 5-meter line, faked a pass and dove for the line. The

final score was 27-8 and the BU players were left shaking their heads.

October 7 saw the Club taking one side out to Albany, NY to play at Albany Law School. Albany opened fast and MIT was unable to get its game plan going until well into the first half. Even then, a psyched-up ALS side was able to smother the ball on the wing. The field was much narrower than MIT is accustomed to and the Club showed a poor ability to adapt to conditions. The forwards had one of their poorest games of the season as they were frequently driven off the ball.

Late in the game as MIT had to press to make up the points from their early deficit, Silverman kicked a penalty goal that just made the cross-bar and was blown in between the posts by the strong cross wind. With the score narrowed to 10-3, MIT started to attack vigorously, but a couple of key mistakes were made and ALS was able to clear the ball. MIT's desperation showed as ALS used defensive lapses to push across two more converted tries. The final score was 22-3.

The Club is now looking forward to the rest of the season. Spectators are always welcome, at both matches and parties. The Club is looking towards its Invitational Social Tournament on November 18, which will include several favorite opponents of both men's and women's clubs for a weekend of playing and partying.

Anyone wishing to join either the men's or women's club should simply show up for practice. The women practice Monday, Wednesday, and Friday at about 5:30pm. The men practice Tuesdays and Thursdays. The rugby field is the only one on Briggs Field with tall, upright goalposts. The field is at the far end of Briggs Field near Westgate. The men's club is coached by Tom Bryant G and Roy Coppinger G, the women's club by David Hanrahan G.



Barbara Kastings tries to elude Brown defender. (Photo by Gordon Haff)

Stanford MBA

REPRESENTATIVE COMING
TO CAMPUS
TUESDAY, OCTOBER 24

A representative of the Stanford Graduate School of Business will be on campus to discuss with interested students the exceptional educational opportunity of the Stanford MBA Program.

Appointments may be made through
The Career Planning and Placement Center

The MBA Program is a two-year general management course of studies designed for men and women who wish to develop management skills to meet the broad responsibilities required in both the private and public sectors today and in the future.

GRADUATE SCHOOL OF BUSINESS
STANFORD UNIVERSITY
Stanford, California 94305



The MIT rugby club stops the BU runner in a game on September 30. MIT tied the game, 10-10. (Photo by Gordon Haff)

GRADUATE SCHOOL OF BUSINESS

Professor Michael J. Ginzberg will be on your campus on Thursday, October 19, 1978 to speak with students from all disciplines who are interested in the MBA and PhD degree programs. Twelve concentrations are offered in the Business School, plus joint degree programs with the Schools of Architecture, Engineering, International Affairs, Journalism, Law, Public Health, Social Work, and Teacher's College. For further details, please contact your Placement Bureau.

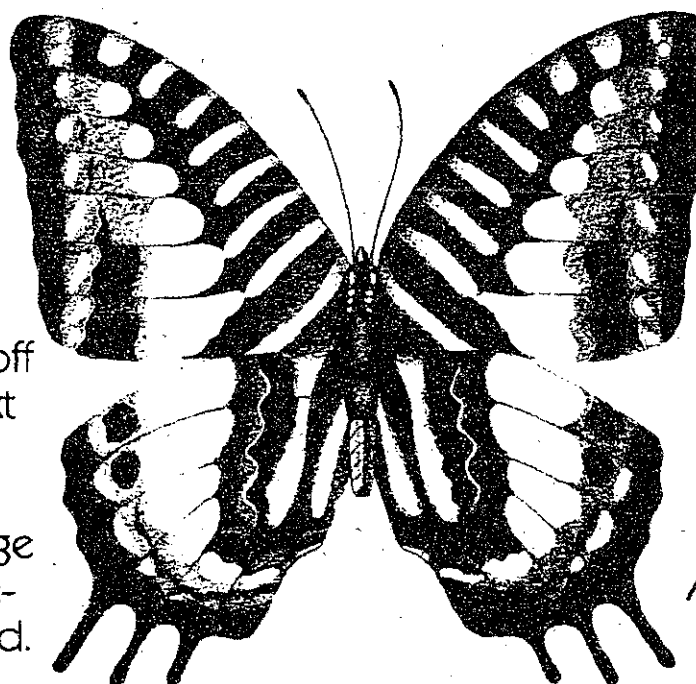
COLUMBIA UNIVERSITY

So you're going to college to be a lepidopterist.

Will You Have A Job When You Graduate?

You like catching, mounting and cataloging butterflies. Is there any reason for you to believe your career will take off after you graduate? In the next issue of *Insider*—the free supplement to your college newspaper from Ford—college degrees and careers they prepare you for will be discussed.

And while you're enjoying



your *Insider*, check out the sharp new Fords for '79. Like the New Breed of Mustang with dramatic new sports car styling. And Fiesta—Wundercar. Ford's fun little import. You can bet Ford has just about everything you'd want to drive.

See if your college education and career hopes are working together, read the next *Insider*. And check out the new lineup of '79 Fords. They'll both put you on the right road.

Look for *Insider*—Ford's continuing series of college newspaper supplements.

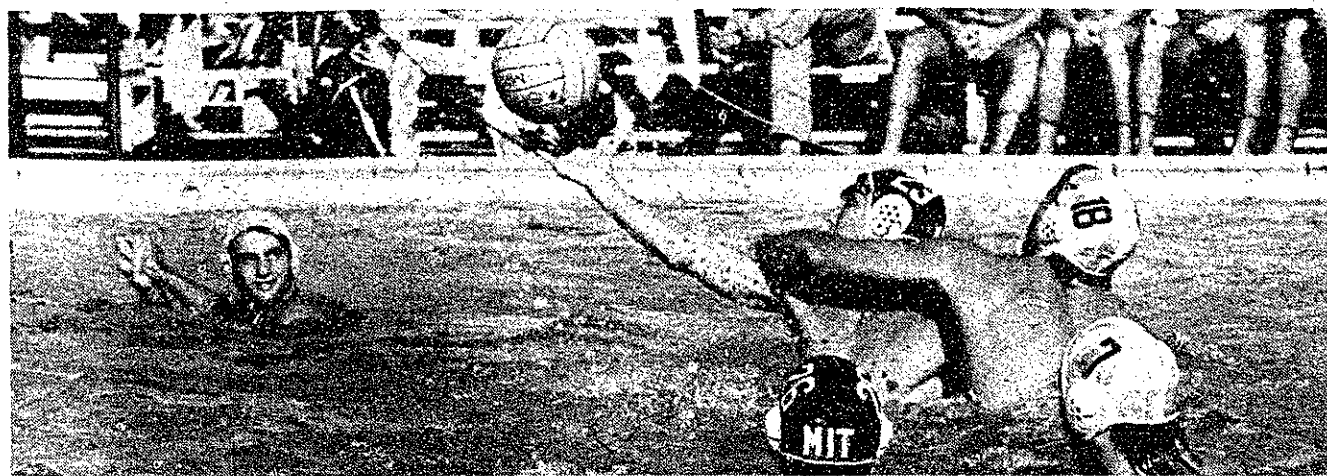
FORD

FORD DIVISION



sports cont.

Water polo torpedoed



Eric Byler (23) is fouled while releasing the ball in the MIT water polo game against San Francisco State. (Photo by Gordon Haff)

(Continued from page 12)
Berkeley to the national championship year after year.

The next match, against UCal-Davis 'B' (Davis' 'A' squad had been thrashed by Berkeley's 'A' squad earlier) started off on a much better note. In the first half, the Beavers traded goals with the Davis team. Already, MIT was moving much more quickly and was beginning to react instinctively to turnovers instead of stopping and thinking about what to do.

Unfortunately for MIT, in a pattern which would become all too familiar before the end of the week, Davis exploded for several quick goals early in the third quarter. MIT never really got back into the game. The Davis game in particular made obvious another skill which MIT lacked: the ability to drive from the hole. The hole man is the attacker who sits out in front of his opponents' goal when his team is on the attack. When the hole man gets the ball, the defender must stop or foul him or else it is an almost certain goal. However, MIT soon learned that the hole man had to make an effort to score or else he would not draw the foul. Much more than in the East, the Techmen had to work to draw fouls and earn kickouts, something which they were not very accustomed to doing.

Following this 11-5 loss to Davis, MIT faced San Francisco State. This game followed the pattern of the Davis game. The teams were tied at the half but MIT ended up losing 12-6.

Sunday was a day off for the team. The previous night had been a big one for parties around the fraternities since Berkeley had defeated Oregon's Beavers the day before in football.

Monday, the Beavers played their final game of the week against California Maritime Academy. In many ways, this was the most frustrating game of the week. At the end of the first quarter, MIT led 4-1. At the half the game was tied. Again the team fell apart in the third quarter on its way to a 10-5 loss.

The remaining two days of the

trip were spent practicing at Berkeley. On Tuesday, the afternoon practice was held with the Redshirts and on Wednesday the final practice of the trip was held with Berkeley's 'A' team under the supervision of Berkeley Coach Peter Cuitino, who is also the U.S. National Coach.

On the whole, MIT coach John Benedick felt that the team had gotten a lot out of the trip although he was naturally disappointed with the losses in general

and the third quarter collapses in particular. Benedick did not think that physical conditioning had anything to do with the third quarter collapses. He said that the team had picked up and improved on a number of fundamental skills on the trip, but that the Beavers' most important learning experience had been about themselves; that they could keep up with almost any team if they don't let down and keep working throughout the game.

Rugby club improves

By Tom Bryant

Editor's note: Tom Bryant is the coach of the rugby club.

After opening the season with two difficult matches, the MIT Rugby Football Club has shown notable improvement.

The first matches were against Springfield City Rugby Football Club, one of the members of the ten club senior division in New England. In the A-side match, Springfield used superior conditioning and coordination in their forwards to wear down the MIT pack.

While Joel Lederman G, in his

first match at A-side hooker, won most of the sets, the pack was being driven backwards as Captain Bob Silverman '80 served the ball to the backs. Most of the team's attack was generated by the foot of flyhalf Tom Bryant G. On a shanked drop goal attempt by Bryant, John Prybylowski '80 and Ken Murphy '80 jumped on the loose ball in the end goal. Prybylowski was awarded the Club's first try of the season.

In the B-side match, MIT was represented by a smattering of A-side players, a few reserves, and

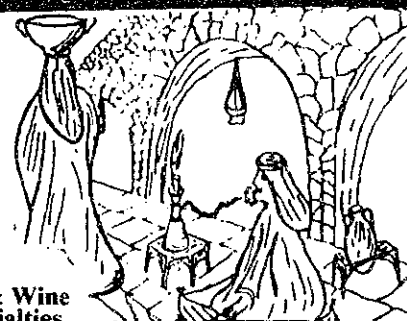
(Please turn to page 10)

Sun-Sat (7 days)
11-12 Midnight
4 Brookline St. 354-8238
Central Square Cambridge

MIDDLE EAST

Cocktails, Imported Liquor, Beer & Wine
Vegetarian Platter, Lamb Specialties,
Luncheon Special, Sandwiches, Snacks
Reasonable Prices

RESTAURANT



Free Baklava with this ad

There's space for you at TRW!

We will be interviewing on Campus November 1, 2, & 3 for:

MS, PhD	Electrical Engineer
MS, PhD	Computer Science
MS, PhD	Communication Systems
MS, PhD	Operations Research

Consider wisely your alternatives. You've invested a lot of time, money and effort to get where you are today...and the decision you are soon to make will be the basis for your professional career.

At TRW we have one of the most advanced high-technology facilities in the world. Our products, from the smallest micro circuit to the largest satellite, are designed by top-notch teams of professionals...with a growing need for bright, young people like you who can contribute new ideas and concepts. We are diversified enough for you to build a sound career and grow professionally as your responsibilities and contributions increase.

Consider carefully your career goals, then consider the company that has space for you to grow and develop your professional expertise...TRW Defense and Space Systems Group.

If you would like TRW to know about you, come by and see us when we're on campus or send us your resume:

TRW Manager of College Relations, MIT
One Space Park, R5 B180, Redondo Beach, California 90278
We are an Equal Opportunity Employer M-F-H
DEFENSE AND SPACE SYSTEMS GROUP

PART TIME JOB

Gnomon Copy is seeking Xerox machine operators. Starting pay is \$3.15/hr. Hours available to suit your schedule, including Midnight-8am. Near MIT, owned by MIT grads, you will be working with students like yourself. This is a much better job than handling food, and we are good people to work for. Dial "C-O-U-R-I-E-R" and ask for Tom Scarnatti.



sports

Field hockey trips Clark



Julie Neuringer '81 scores on the first of her two penalty shots in last Friday's field hockey action. MIT beat Clark, 6-2. (Photo by Joel West)

By Richard Auchus

The women's field hockey team came alive for five goals in the second half en route to a 6-2 victory over Clark on Briggs Field Friday. Diane Ozelius '79 led the team with two goals and two assists.

When the game started, MIT was neither hustling nor setting up scoring plays. The team was sloppy and lost several turnovers. Clark controlled play and scored the first goal at 28:38. After that, Tech woke up and started to put its act together. Following several futile corner shots, Ozelius fed the ball to Michelle Lucier '81 who put the Beavers on the board.

In the second half, MIT gradually pushed deeper Clark territory, and racked up three goals in three minutes. Ozelius passed this time to Sue Flint '81 who put MIT ahead for good. Ozelius followed with an unassisted goal of her own on the ensuing face-off. Finally, Julie Neuringer '81 flicked in a penalty shot to make the score 4-1.

Then Tech got careless again, and Clark penetrated for a score at 18:22. MIT reestablished a three-goal lead, by lofting a perfectly-placed penalty shot into the upper left-hand corner of the Clark goal. Late in the game, Ozelius topped off a fine performance with her second goal.

In only its third year at MIT, the team has built up a 3-4 record and is constantly improving.

sporting notices

The 1978 Intramural Cross Country meet will begin at 10:00 am, Sun., Nov. 5, at Fresh Pond in Cambridge. Team rosters are due in duPont mailbox W32-131 by 5:00pm Wed., Nov. 1. All team rosters must contain at least four names.

The Rand Graduate Institute

will be interviewing on campus Thursday, October 19 and Friday, October 20, 1978 at the Career Planning and Placement center. The Institute, part of the Rand Corporation, Santa Monica, California, offers a 3 year paid work/study program leading to a PhD in Policy Analysis. A master's degree or equivalent post-undergraduate degree training and experience is required for admission. For more information call Phyllis Jackson at 253-4733.

An Affirmative Action Employer

Coach Deborah Clum was elated with the team's performance. She cites the excellent defensive play by freshmen Kathy Hamilton, Emmy Behlau, and goalie Lisa Richardson. Richardson played a fine game with many clutch saves. Ozelius, the team's leading scorer throughout the season, came

through with another tremendous effort.

With three games remaining, if the women continue to play as they did in the second half of Friday's game, they have an excellent chance of enjoying the first .500 season of field hockey in MIT's history.

Water polo sinks slowly in the west

By Gordon Haff

Last week, 14 members of the MIT water polo team, their manager, and their coach traveled to California to take advantage of the West Coast's superior teams and facilities.

The team arrived in California at 4:30am on Thursday morning, California time. That afternoon, the squad journeyed to UCal-Hayward where they faced a strong team from Santa Clara University. Almost immediately the Beavers discovered that Western water polo was superior to anything they had faced on the East Coast. Most of the teams Tech faced reacted much more quickly to certain situations than did the MIT squad. In particular, when the ball turned over, Santa Clara reacted instantaneously, unlike MIT, and thus frequently created effective man-up situations. The final score was 14-7 in favor of the Californians.

After squaring away living arrangements in the fraternities at UCal-Berkeley, the team headed

back to Hayward the next day to practice with and scrimmage the UCal-Hayward club. Most of the practice was spent working on reacting to turnovers. This problem which had plagued MIT the day before was also one of the things which the Hayward coach was most concerned with. It was a skill which the MIT squad worked on throughout the week and is probably one of the more valuable skills which they carried away from the trip.

Saturday was the big game day. The Tech team led off with their only serious defeat of the week against the Berkeley Redshirts. The Redshirts are a club team connected with UCal-Berkeley's team, NCAA champions for six out of the last seven years. The Redshirts give potential star freshmen an extra year of eligibility.

The Redshirts treated MIT to a show of the team coordination and individual shooting and driving power which has led UCal-

Campus Interviews for TI Science Services Division

Match your degree to our multitude of openings.

(U.S. Citizenship or permanent resident visa is required.)

Degrees — BS/MS/PhD

Geophysics
Physics
Math
Geology

Computer Science
Electrical Engineering
Biology
Zoology

Fisheries
Meteorology
Hydrology
Mechanical Engineering

Areas of Activities and Locations

Computer Software
Development
Applications Programming
Digital/Analog Design
Electromechanical Design
Seismic Data Collection
Seismic Data Processing
Geophysical Research

Airborne Geophysics
Systems Analysis
Terrestrial Ecology
Aquatic Ecology
Air Monitoring Studies
Socioeconomic Studies

Dallas, TX

Houston, TX
Austin, TX
Midland, TX
New Orleans, LA
Denver, CO
Anchorage, AK
Buchanan, NY
and Overseas locations

Major Technologies

Seismic Data Collection, Processing and Interpretation. This organization is the world leader in the search for oil. Seismic services (both land and marine) include three-dimensional (3D) geophysical data gathering and processing, an important new approach in delineating petroleum-bearing formations, pioneered by TI.

Ecological-Environmental Services. This operation conducts studies designed to evaluate and improve our environment. Programs range from infrared "mapping" of heat loss from homes on a state-wide basis to studies of the ecological impact of power generation on the Hudson River.

Interviewing on Campus

October 23-24

If unable to interview at this time, send resume to: College Relations Administrator, Science Services Division/Texas Instruments/P. O. Box 225621/MS 948/Dallas, Texas 75265.

TEXAS INSTRUMENTS

INCORPORATED

An equal opportunity employer M/F